

CLAIMS

What is claimed is:

1. An electro-optical device, comprising:
 - a pair of substrates;
 - an electro-optical material held between the pair of substrates by a sealant;and
 - a resin layer provided on at least one substrate of the pair of substrates, wherein tapers of the resin layer have a plurality of different angles.
2. The electro-optical device according to Claim 1,
 - wherein the resin layer is formed in a display region and a peripheral region of the display region,
 - wherein the tapers are formed in the display region and the peripheral region of the display region, and
 - wherein an inclination of the taper formed in the display region is larger than an inclination of the taper formed in the peripheral region of the display region.
3. The electro-optical device according to Claim 2,
 - wherein the display region comprises a transmissive display region and a reflective display region, and
 - wherein the taper formed in the display region is formed at a boundary between the transmissive display region and the reflective display region.

4. The electro-optical device according to Claim 2,
wherein the taper in the peripheral region of the display region is formed in
a region where an electrode wiring is formed.

5. The electro-optical device according to Claim 2,
wherein the taper of the display region has a first angle with a base to
height ratio from 4:1 to 2:1, and
wherein the taper in the peripheral region of the display region has a
second angle with a base to height ratio from 8:1 to 4:1.

6. The electro-optical device according to Claim 1,
wherein a red color filter, a green color filter, and a blue color filter are
formed in the display region, and
wherein each color filter has thereon an alignment control protrusion formed
of the resin layer.

7. The electro-optical device according to Claim 6,
wherein an inclination of the taper of the resin layer on the red color filter is
larger than an inclination of the taper of the resin layer on the other color filters.

8. The electro-optical device according to Claim 7,
wherein an inclination of the taper of the resin layer on the green color filter
is larger than an inclination of the taper of the resin layer on the blue color filter.

9. The electro-optical device according to Claim 7,
wherein a base layer having a taper for forming an electrode wiring in a
peripheral region of the display region is formed, and

wherein an inclination of the taper of the base layer is smaller than an
inclination of the taper of the resin layer on the red color filter.

10. A substrate for an electro-optical device, comprising:
a substrate; and
a resin layer provided on the substrate,
wherein tapers of the resin layer have a plurality of different angles.

11. An electronic apparatus comprising the electro-optical device
according to Claim 1.

12. A method of manufacturing a substrate for an electro-optical device,
the method comprising:
a resin layer forming step of forming a resin layer on the substrate with
tapers of the resin layer having a plurality of different angles.

13. The method of manufacturing a substrate for an electro-optical
device according to Claim 12,
wherein a photolithographic mask having a full transmission region, a
plurality of medium transmission regions, and a light-shielding region is used in
the resin layer forming step.

14. The method of manufacturing a substrate for an electro-optical device according to Claim 12,

wherein the resin layer is patterned by exposing the resin layer several times using a photolithographic mask having a full transmission region and a light-shielding region in the resin layer forming step.

15. The method of manufacturing a substrate for an electro-optical device according to Claim 12,

wherein the resin layer is patterned by diffraction-exposing the resin layer using a photolithographic mask for diffraction exposure in the resin layer forming step.